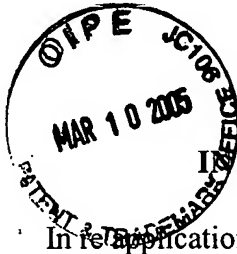


IFU



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Chen et al.
Application Serial No.: 10/810,795
Filed: March 26, 2004
For: LOCAL STRESS CONTROL FOR CMOS PERFORMANCE ENHANCEMENT
Patent No.:
Issue Date:

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

**CERTIFICATE UNDER 37 C.F.R. §3.73(b)
ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION**

1. The assignee of the entire right, title and interest hereby seeks to take action in the PTO in this matter.

IDENTIFICATION OF ASSIGNEE

2. The assignee of this matter is:

TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD.
No. 8, Li-Hsin Rd. 6
Science-Based Industrial Park
Hsin-Chu 300-77, Taiwan, R.O.C.

PERSON AUTHORIZED TO SIGN

3. Daniel R. McClure
Attorney for Assignee

4. A chain of title from the inventor(s) to the current assignee is shown below:
- a. From: Chien-Hao Chen, Chia-Lin Chen, Tze-Liang Lee, Shih-Chang Chen
To: Taiwan Semiconductor Manufacturing Co., Inc.

Recorded in PTO: See Exhibit A evidencing assignment that
has already been filed. No Reel and Frame has been assigned as of yet.

DECLARATIONS

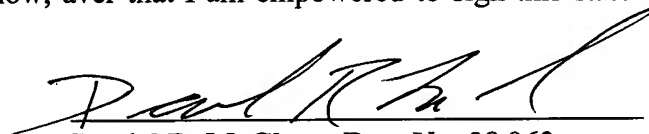
5. I, the undersigned, have reviewed all the documents in the chain of title of the

☒ application
☐ patent

matter identified above and, to the best of my knowledge and belief, title is in the assignee identified above.

6. I hereby declare that all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further, that these statements are made with the knowledge that willful false statements, and the like so made, are punishable by fine or imprisonment, or both, under Section 1001, Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

7. I, the person signing below, aver that I am empowered to sign this statement on behalf of the assignee.



Daniel R. McClure, Reg. No. 38,962

Tel. No. 770-933-9500
Customer No.: 24504

**THOMAS, KAYDEN, HORSTEMEYER
& RISLEY, L.L.P.**
100 Galleria Parkway, Suite 1750
Atlanta, Georgia 30339-5948

Docket No. 252016-2910



THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application:

Application No.: 10/810,795

Filed: March 26, 2004

Title: LOCAL STRESS CONTROL FOR CMOS PERFORMANCE ENHANCEMENT

Commissioner for patents

Washington, D.C. 20231

POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST
(REVOCATION OF PRIOR POWERS)**REVOCATION OF PRIOR POWERS OF ATTORNEY**

the power of attorney previously given is hereby revoked, and

NEW POWER OF ATTORNEY

the following attorneys/agents are hereby appointed to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith: I hereby appoint all attorneys of Thomas, Kayden, Horstemeyer & Risley, LLP, who are listed under the USPTO Customer Number shown below as the attorneys to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith, recognizing that the specific attorneys listed under that Customer Number may be changed from time to time at the sole discretion of Thomas, Kayden, Horstemeyer & Risley, LLP, and request that all correspondence about the application be addressed to the address filed under the same USPTO Customer Number.

000047390

Patent Trademark Office

Please direct all correspondence and telephone calls to:

Daniel R. McClure, Reg. No. 38,962**THOMAS, KAYDEN, HORSTEMEYER & RISLEY, L.L.P.**

100 Galleria Parkway, Suite 1750

Atlanta, Georgia 30339

770-933-9500

ASSIGNEE OF ENTIRE INTEREST
TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD

No. 8, Li-Hsin Rd. 6


Science-Based Industrial Park

Hsin-Chu, Taiwan 300-77, R.O.C.

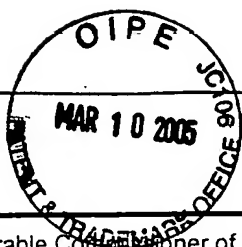
ASSIGNEE CERTIFICATION

The certification under 37 C.F.R. §3.73(b) establishing the right of assignee to take action is attached hereto along with documentation evidencing same. Further, in my official position with Taiwan Semiconductor Manufacturing Company. Ltd., I am authorized to sign documents and otherwise act on its behalf in connection with the management and handling of patent applications and other intellectual property matters.

Date: March 1, 2005


Chien-Wei (Chris) Chou
Director-Intellectual Property Division

PTO-1595



RECORDATION FORM COVER SHEET

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office**PATENTS ONLY**

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1 Name of conveying party(ies):

CHIEN-HAO CHEN
CHIA-LIN CHEN
TZE-LIANG LEE
SHIH-CHANG CHEN

2 Name and address of receiving party(ies):

Taiwan Semiconductor Manufacturing Co. Ltd.
No. 8. Li-Hsin Rd. 6
Science-Based Industrial Park
Hsin-Chu, Taiwan, R.O.C.

3 Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other:
Execution Date: 12/23/03

Additional name(s) & address(es) attached ☐ Yes ☒ No

4 Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: 12/23/03

A. Patent Application No(s).

B. Patent No(s)

Additional numbers attached? ☐ Yes ☒ No

5 Name and address of party to whom correspondence concerning document should be mailed:

RANDY W. TUNG
Tung & Associates
838 W. Long Lake Road
Suite 120
Bloomfield Hills, Michigan 48302

6 Total number of applications and patents involved:

1

7 Total fee (37 CFR 3.41)

\$40.00

☐ Enclosed☒ Authorized to charge credit card (w/filing fee)

8 Deposit Account Number:

(Attach duplicate copy of this page if paying by deposit account)

DO NOT USE THIS SPACE

9 Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Randy W. Tung
Name of Person Signing
Registration No. 31,311


Signature

Mar. 26/04
Date

Total number of pages including cover sheet, attachments, and document: 3

67,200-1227

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

ASSIGNMENT

WHEREAS, we, CHIEN-HAO CHEN, CHIA-LIN CHEN, TZE-LIANG LEE,
AND SHIH-CHANG CHEN, have invented certain improvements in

LOCAL STRESS CONTROL FOR CMOS PERFORMANCE ENHANCEMENT

for which we are about to make application for Letters Patent of the United States; and

WHEREAS, TAIWAN SEMICONDUCTOR MANUFACTURING CO., LTD. of
No. 8, Li-Hsin Rd. 6, Science-Based Industrial Park, Hsin-Chu, Taiwan, R.O.C, is desirous of
acquiring the entire right, title and interest in and to said invention;

NOW, THEREFORE, in consideration of One Dollar (\$1.00) and other good and
valuable consideration, the receipt of which is hereby acknowledged, we, CHIEN-HAO CHEN,
CHIA-LIN CHEN, TZE-LIANG LEE, AND SHIH-CHANG CHEN, by these presents, do hereby
sell, assign and transfer unto the said corporation and its assigns, for the territory of the United
States of America and all foreign countries, the entire right, title and interest, including all
priority rights under the International Convention associated with each country of the Union, in
and to said invention as described in the patent application executed by us on the 23rd day of
December, 2003, preparatory to obtaining Letters Patent of the United States
thereon, and in and to said application and any Letters Patent that may be granted in pursuance of
said application and any divisional, continuation or continuation-in-part application thereof, and
in and to any reissue of any such patent, and in and to any patent applications which may be filed
on said invention in countries foreign to the United States and any Letters Patent granted thereon.

67,200-1227
2003-1019

We further authorize said corporation to apply for foreign patents on said invention in its own name or through its designees, including subsidiaries, related companies or assignees, under the International Convention or otherwise, and we further agree to execute all papers, including those required for the United States and foreign applications, and to perform such other proper acts as said corporation or its designees the rights herein assigned.

Chien-Hao Chen

CHIENT-HAO CHEN,

Tze-Liang Lee

TZE-LIANG LEE, AND

Chia-Lin Chen

CHIA-LIN CHEN

Shih-Chang Chen

SHIH-CHANG CHEN

TUNG & ASSOCIATES

838 W. Long Lake Road

Suite 120

Bloomfield Hills, Michigan 48302